Theoretical Statistics and Mathematics Unit

Seminar

Date: December 20, 2016 Time: 4:15 PM

Venue: L-2, Stat-Math Unit (4th Floor, A.N. Kolmogorov Bhavan)

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The Baire classes of a Banach Space

Abstract

The Baire classes of a Banach space are defined in a manner parallel to the Baire classes of functions on a compact space K. We give background for several open questions regarding the Baire classes on K and the Baire classes of a general Banach space. We discuss the question of whether all Baire classes on [0, 1] are isomorphic, and give some partial results. We also discuss the question of whether the first Baire class of a $C*$-algebra is a Grothendieck space.

This discussion is based on the recent book Banach Spaces of Continuous Functions as Dual Spaces, CMS Books in Mathematics, Springer–Verlag, co-authored by myself, H. Garth Dales, Anthony To-Ming Lau, and Dona Strauss.

All are cordially invited